UVAROV, V.V., prof., doktor tekhn.nauk; LEBEDYANSKIY, L.S., konstruktor; OHIROV, V.S., inzh.; CHERNOBROVKIN, A.P., kand.tekhn.nauk, dots.; SHARGOVSKIY, R.I., inzh.; SHEPILOV, V.P., inzh.

The 6.000 hp. gas turbine locomotive constructed by the Kolomna Plant. Izv.vys.ucheb.zav.; mashinostr. no.6:104-108 58. (MIRA 12:8)

1. Moskovskoye vyssheye tekhnicheskoye uchilishche im. Baumana i Kolomenskiy teplovozostroitel'nyy zavod im. Kuybysheva. (Gas turbine locomotives)

SHARGOVSKIY, R.I., inzh.

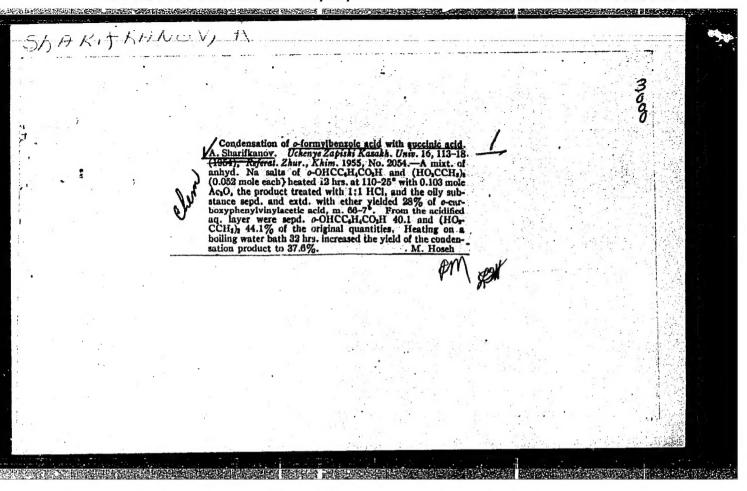
First Soviet gas-turbine locomotive. Zhel.dor.transp. 42 no.1:21-22,48b-48c Ja '60. (MIRA 13:5)

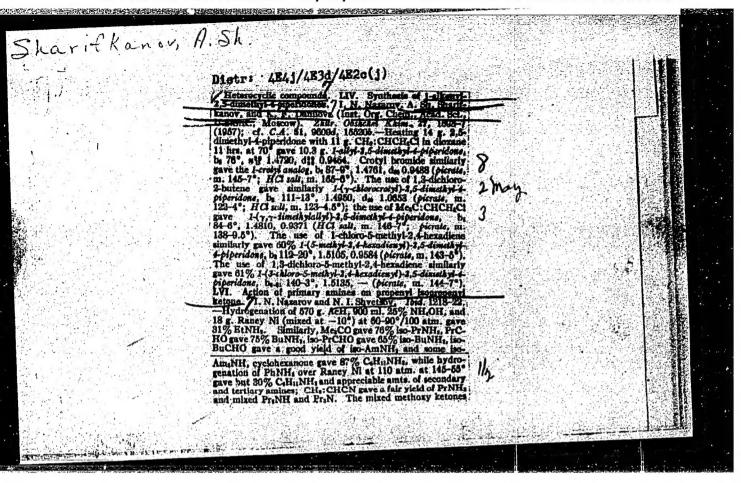
l. Zamestitel' glavnogo konstruktora Kolomenskogo teplovozostroitel'nogo zavoda. (Kolomna--Gas turbine locomotives)

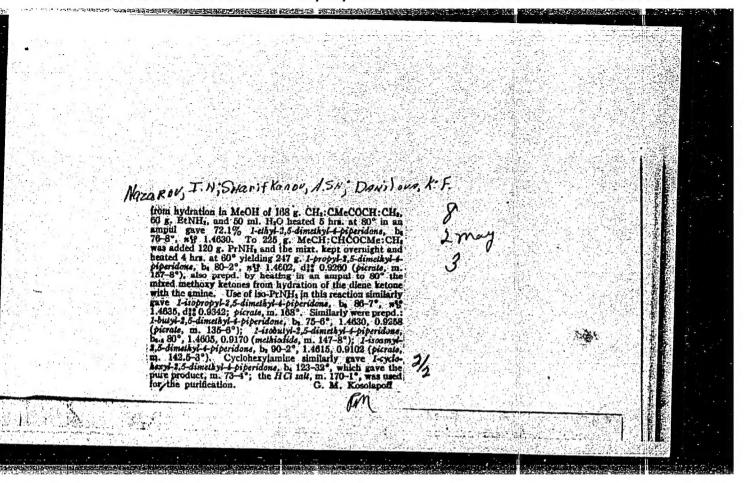
SHARI, Tamara Sergeyevna, GAL'PERIN, L.L. redaktor; BOHROVA, Ye.N., tekhnicheskiy redaktor.

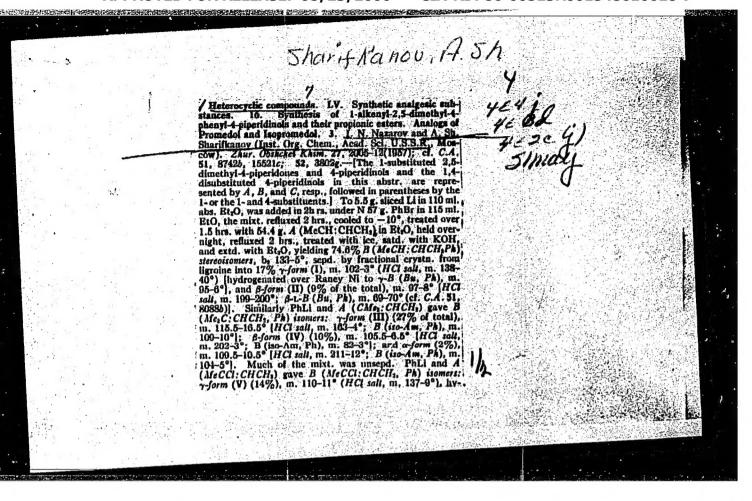
[Devices used in repairing electric locemotive equipment] Prispesobleniia dlia remonta oborudovaniia elektrovesov; opyt raboty kollektivov elektrovoznykh depo elektrifitsirovannykh uchastkov Severnoi, Sverdlovskoi i IUzhno-Uraliskoi dorog. Moskva, Ges. transp.zhel-der.izd-vo, 1957. 66 p. (MIRA 10:6)

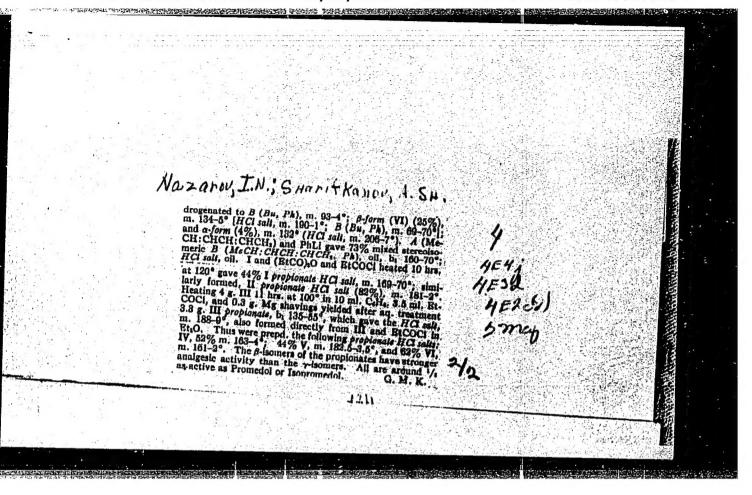
(**Lectric locomotives--Repairing)











AUTHORS:

Nazarov, I. N., Sharifkanov, A. Sh.,

62-58-4-9/32

TITLE:

Heterocyclic Compounds (Geterotsiklicheskiye soyedineniya) Communication 58: Anesthetizing Synthetic Substances (Soobshcheniye 58: Sinteticheskiye obezbolivayushchiye veshchestva).XIX.Synthesis of Bonnoic and Phenylacetic Entows of 1-Alkenyl- 2.5-Dimethyl-4-Ethynyl -4-Piperidoles

(XIX.Sintes behacognykh i fenoksiuksusnykh efirov 1-alkenil-2,5-

imetil-4-etinil-4-piperidolov)

PERIODICAL: Izvestiya Akademii Nauk SSSR.Otdeleniye Khimicheskikh Nauk,

1958, Nr 4, pp. 446-451 (USSR)

ABSTRACT:

As the authors communicated already earlier (references 1-4) they carry out systematic investigations of the synthesis of new anesthetic substances in their laboratory. The purpose of this paper was to explain the influence of unsaturated radicals at the nitrogen on the physiologic activity of benzoic and phenylacetic esters of 2,5-dimethyl-4-ethynyl - 4-piperidole. The results of this experiment were the following: By condensation of 1-alkenyl-2, 5-dimethyl-

Card 1/3

4-piperidole with acetylene at 5 atmospheres excess pressure

62-58-4-9/32

Heterocyclic Compounds. Communication 58: Anesthetizing Synthetic Substances. XIX. Synthesis of Benzoic and Phenylacetic Esters of 1-Alkenyl-1-2, 5-Dimethyl-4-Ethynyl -4-Piyeridoles

the corresponding 1-alkenyl-2, 5-dimethyl-4-ethynyl-piperidole was produced in great yields (formulae I - III) namely as a mixture of stereochemical isomers which separate into individual compounds by means of partial crystallization of the hydrochlorides. By the esterification of the piperidoles (formulae I - III) by means of chlorine anhydrides of benzoic and phenylacetic acids their benzoic and phenylacetic esters were produced (formulae IV - VIII). The latter were subjected to a pharmacological investigation with regard to their anesthetic effect. It showed that with regard to this effect benzoic ester of 1-crotyl-2, 5-dimethyl-4-ethinyl-4-piperidole was the nost valuable of these esters. There is 1 table, and 7 references, 6 of which are Soviet.

Card 2/3

62-58-4-9/32

Heterocyclic Compounds. Communication 58: Anesthetizing Synthetic Substances. XIX. Synthesis of Benzoic and Phenylacetic Esters of 1-Alkyl-2, 5-Dimethyl-4-Ethinyl-4-Piperidoles

ASSOCIATION: Institut or unicheshoy khimii im.N. D. Zelinshogo Akademii nauk SSSI: Kazakhskiy gosudarstvennyy universitet im.

S. M. Kirova (Institute for Organic Chemistry ideni N.D. Zelinskiy, AS USSR and Kazakh State University imeni S. M.

Kirov)

SUBMITTED: November 20, 1956

AVAILABLE: Library of Congress

1. Heterocyclic compounds 2. Benzoic esters—Synthesis

3. Phenylacetic esters—Synthesis

Card 3/3

HARAKONEL Hoh

62-59-4-10/32

AUTHORS: Nazarev, I. N., Sharifhanov, A. Sh., Danilova, K.F.

TITLE: Heterocyclic Compounds (Geterotsiklicheskiye soyedineniya).

Communication 59: Anesthetizing Synthetic Substances (Soobshcheniye 59: Sinteticheskiye obezbolivayushchiye veshchestva). XX. Synthesis of the Benzoic and Phenylacetic Esters 1-Alkenyl-2,5-Dimethyl-4-Ethyl-4-Piperidoles (XX. Sintez benzoynykh i fenoksiuksusnykh efirov 1-alkenil-2,5-

dimetil-4-etil-4-pi, eridolov)

PERIODICAL: Izvestiya Akademii Nauk SSSR, Otdeleniye Khimicheskikh Nauk,

1958, Nr 4, Pp. 452 - 459 (USSR)

ABSTRACT: In the previous work some benzoates and phenoxyacetates of

1-alkenyl-2,5-dimethyl-4-ethinyl-4-pijeridole were described. Among them are some compounds which have strong anesthetizing effects. In continuation of these investigations the authors

decided to synthetize benzoates and phenoxyacetates of 1-alkenyl-2,5-dimethyl-4-ethinyl-4-piperidole. The initial

Card 1/3 1-alkenyl-2,5-dimethyl-4-ethinyl-4-piperidole (formulae I-III)

医尼耳氏试验检检验性 化酸医医酚甲醛基酚 网络西班牙科医西哥拉拉 网络中国西部

62-59-4-10/32

Heterocyclic Compounds. Communication 59: Anesthetizing Synthetic Substances. XX. Synthesis of the Benzoic and Phenylacetic Esters 1-Alkenyl-2,5-Dimethyl-4-Ethyl-4-Pijeridolcs

were produced in great yields (70%) by condensation of lithium ethyl with 1-albenyl-2,5-dimethyl-4-piperidones (Reference 4). For the purpose of separating the individual compounds the minthres of isomeric piperidoles were converted to salts of hydrogen chloride. By means of the esterification of the 1-alkenyl-2,5-dimethyl-4-ethyl-4pi; eridole with chlorine anhydride of bencoic and phenylacetic acid corresponding 1-alkenyl-2,5-dimethyl-4-cthyl-4-Fi erideles were produced as a mixture of stereochemical isomers. Synthetized were: benzoic and phenylacetic esters of 1-alkeny1-2,5-dimethy1-4-ethyl-4-piperidole (formulae IV - VIII). They were subjected to a pharmacological investigution with regard to their anesthetizing properities. It showed that phenylacetic esters of the x-form of 1-crotyl-2,5-dimethyl-4-ethyl-4-piperidoles is remarkably more active than di'aine, however, its toxicity is twice as great.

Card 2/3

62-58-4-10/32

Heterocyclic Compounds. Communication 59: Anesthetizing Synthetic Substances. XX. Synthesis of the Benzoic and Phenylacetic Esters 1-Alkenyl-2.5-Dimethyl-4-Ethyl-4-Piperidoles

There are 1 table, and 4 references, 3 of which are Soviet.

ASSOCIATION: Institut or major oglog khimii im. N. D. Zelinskogo Akademii nauk SSSR i Kazakhskiy gosudarstvennyy universitet im. S. M. Kirova (Institute for Organic Chemistry imeni N. D. Zelinskiy AS USSR and Kazakh State University imeni S. M. Kirov)

SUBMITTED: November 20, 1956

AVAILABLE: Library of Congress

1. Heterocyclic compounds 2. Benzeic esters--Synthesis

3. Phenylacetic esters—Synthesis

Card 3/3

"APPROVED FOR RELEASE: 08/23/2000 CI

CIA-RDP86-00513R001548610018-7

AUTHORS:

Nazarov, I. N., Sharifkanov, A. Sh.,

sov/62-58-6-14/37

Danilova, K. F.

TITLE:

Heterocyclic Compounds (Geterotsiklicheskiye soyedineniya)
Communication 60. Synthetic Analgesic Substances: XXI. Synthesis
of Esters of the a-Form of 1-Alkenyl-2,5-Dimethyl-4-Piperidols
(Soobshcheniye 60. Sinteticheskiye obezbolivayushchiye veshchestva. XXI. Sintez efirov a-formy 1-alkenil-2,5-dimetil-4-piperido-

lov)

PERIODICAL:

Izvestiya Akademii nauk SSSR, Otdeleniye khimicheskikh nauk,

1958, Nr 6, pp. 739 - 747 (USSR)

ABSTRACT:

In the present paper the authors describe the synthetization of a number of new esters (of the a-form) of secondary 1-alkenyl-2,5-dimethyl-4-piperidols with a view of explaining the influence exercised by unsaturated nitrogen radicals and the effect produced by the character of the azyl rest upon the physiological activity of these compounds. By the interaction between the a-form of the 2,5*dimethyl-4-piperidol and halide derivatives of the allyl type various 1-alkenyl-(alkadienyl)-2,5-dimethyl-4-piperidols (Formulae I-VI) were synthetized with a high yield.

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Heterocyclic Compounds. Communication 60. Synthetic Anal-SOV/62-58-6-14/37 gesic Substances. XXI. Synthesis of Esters of the a-Form of 1-Alkenyl-2,5--Dimethyl-4-Piperidols

> By the esterization of piperidols (Formulae I-VI) by means of acid chloroanhydrides complex esters (Formulae VII-XIX) were obtained. They were pharmacologically tested with respect to their anaesthetizing properties. Among the compounds investigated propion-and acetic esters of 1-crotyl-2,5-dimethyl-4-piperidol (Formulae XIII and XIV) showed very weak activity. All other esters investigated show high anaesthetizing activity and relatively low toxicity. There are 2 tables and 9 references, 8 of which are Soviet.

ASSOCIATION: Institut organicheskoy khimii im, N.D.Zelinskogo i Kafedra organicheskoy khimii Kazakhskogo gosudarstvennogo universiteta im. S. M. Kirova (Institute of Organic Chemistry imeni N.D. Zelinskiy and Chair of Organic Chemistry of Kazakh State University imeni S.M. Kirov)

SUBMITTED:

November 20, 1956

Card 2/3

CIA-RDP86-00513R001548610018-7" APPROVED FOR RELEASE: 08/23/2000

Heterocyclic Compounds. Communication 60. Synthetic SOV/62-58-6-14/37 Analgesic Substances. XXI. Synthesis of Esters of the α -Form of 1-Alkenyl-2,5-Dimethyl-4-Piperidols

1. Esters—Synthesis 2. Esters—Physiological effects 3. Nitrogen redicals—Chemical effects

Card 3/3

SHARIFKANOV, A.Sh.; IBRANOV, P.S.

Heterocyclic compounds. Phenoxyacetic and benzoic esters of the α-forms of 1-crotyl- and 1-(γ-chlorocrotyl)-2,5-dimethyl-4-piperidino. Izv. AN K_Bzakh. SSR Ser. khim. no. 2:105-106 160. (MIRA 14:5) (Piperidinol)

NAZAROV, I.N.; SHARIFKAHOV, A.Sh.; SARBAYEV, T.C.

Heterocyclic compounds. Synthetic anesthetics. Synthesis of benzoic esters of 1-n-propl and 1-n-buty1-2,5-dimethy1-4-ethyny1-4-piperidinols. Zhur. ob. khim. 30 no.9:2904-2908 S *60. (MIRA 13:9)

1. Kazakhskiy gosudarstvennyy universitet.

(Piperidinol) (Anesthetics)

SHARIFKANOV, A.Sh.; BESSOHOVA, I.V.; ASANBEKOVA, A.

Heterocyclic compounds. Synthetic anesthetics. Synthesis of benzoic esters of 1-n-propl- and 1-n-buty1-2,5-dimethy1-4-ethyl-4-piperidinols.

Zhur. ob.khim. 30 no.9:2909-2911 S '60. (MIRA 13:9)

1. Kazakhskiy gosudarstvennyy universitet.
(Piperidinol) (Anesthetics)

NAZAROV, I.N.; SHARIFKAHOV, A.Sh.; YUSUPOV, S.A.

Heterocyclic compounds. Synthesis of benzoates of 1-alkeny1-2,5-dimethy1-4-yiny1-4-piperidinol. Zhur. ob. khim. 30 no.11:3608-3610 N'60.

1. Kazakhskiy gosudarstvennyy universitet.

(Piperidinol)

NAZAROV, I.N.; SHARIFKANOV, A.Sh.; YUSUPOV, S.A.; SARBAYEV, T.G.

Heterocyclic compounds. Synthesis of 2,5-dimethyl-4-ethynyl (vinyl and ethyl)-4-piperidinols. Zhur.ob.khim. 30 nc.10:3267-3271 0 '61.

(MIRA 14:4)

1. Kazakhskiy gosudarstvennyy universitet.

(Piperidinol)

SHARIFKANOV, A.Sh.; SARBAYEV, T.G.

Heterocyclic compounds. Synthesis of benzoic esters of \(\gamma\)- and \(\beta\)-isomers of \(1\)-(1-phenyl-1-propenyl)-2,5-dimethyl-4-ethynyl-4-biperidinol. Zhur.ob.khim. 31 no.9:2851-2853 S '61. (MIRA 14:9) \(\text{biperidinol} \). Kazakhskiy gosudarstvennyy universitet.

(Benzoic acid) (Piperidinol)

SHARIFKANOV, A.Sh.; SARBAYEV, T.G.

Heterocyclic compounds. Synthesis of phenoxyacetic, p-methoxynenoxyacetic, and g-phenylmercaptopropionic esters of a xyphenoxyacetic, phenylmercaptopropionic esters of a riscomer of 1-(1-phenylally1)-2,5-dimethyl-4-ethynil-4-piperidol. Zhur.ob.khim. 32 no.2:417-419 F '62. (MIRA 15:2)

1. Kazakhskiy gosudarstvennyy universitet. (Esters) (Piperidinol)

SHARIFKANOV, A.Sh.; SARBAYEV, T.G.

Heterocyclic compounds. Synthesis of benzoic, p-methoxyphenoxyacetic, and p-phenylmercaptopropionic esters of a y-isomer
of 1-(p-phenylethyl)-2,5-dimethyl-4-ethynil-4-piperidol. Zhur.
ob.khim. 32 no.2:419-422 F '62. (MIRA 15:2)

1. Kazakhskiy gosudarstvennyy universitet.
(Esters)
(Piperidinol)

SHARIFKANOV, A.Sh.; SARBAYEV, T.G.

Heterocyclic compounds. Synthesis of benzoic esters of //phenylallyl) and //isomers of l-(//phenylallyl) and l-(//phenylathyl)-2,5-dimethyl-4-vinyl-4-piperidinols. Zhur.ob.khim. 32 no.10:3172-3174 0 '62. (MIRA 15:11)

1. Kazakhskiy gosudarstvennyy universitet. (Piperidinol) (Benzoic acid)

SHARIFKANOV, A.Sh.; YUSUPOV, S.A.; AKHMETOVA, Sh.S.

Heterocyclic compounds. Synthesis of —phenylmercaptopropionic esters of the 2-form of 1-ally1- and 1-croty1-2,5-dimethy1-4-piperidinols. Zhur.ob,khim. 32 no.10:3175-3176 0 '62. (MIRA 15:11)

1. Kazakhskiy gosudarstvennyy universitet. (Piperidinol) (Propionic acid)

SHARIFKANOV, A.Sh.; SARBAYEV, T.G.; YUSUPOV, S.A.

Heterocyclic compounds. Part 1: Configuration of 2,5-dimethyl4-ethynyl (vinyl and ethyl)-4-piperidinols. Zhur.ob.khim. 32
no.8:2508-2514 Ag '62.

1. Kazakhskiy gosudarstvennyy universitet.
(Piperidinol) (Unsaturated compounds)

SOKOL'SKAYA, A.M.; SHARIFKANOV, A.Sh.; SARBAYEV, T.G.

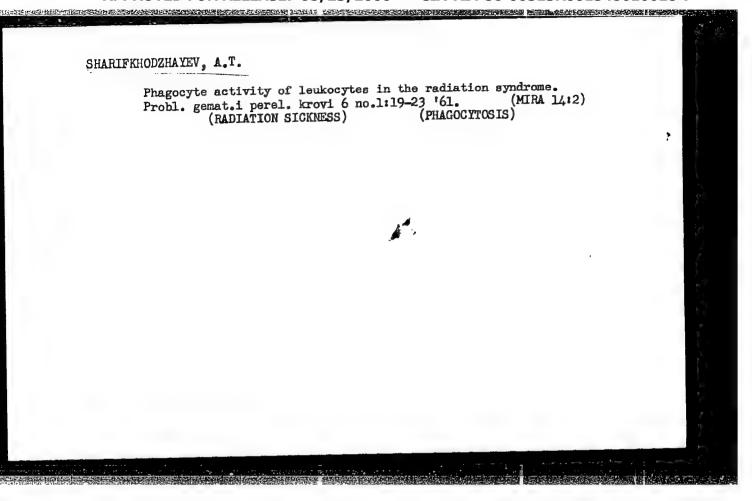
Hydrogenation of β - and γ -forms of 2,5-dimethyl-4-ethinyl-4-piperidol. Izv.vys.ucheb.zav.; khim. i khim. tekh. 6 nc.6: 965-969 '63. (MIRA 17:4)

1. Kazakhskiy gosudarstvennyy universitet imeni Kirova, kafedra organicheskoy khimii.

SHARIFKANOV, A.Sh.; MUKHAMETKALIYEV, T.M.; GAFAROVA, N.A.

Heterocyclic compounds. Part 1: Interaction of 7-piperidones with organolithium compounds. Zhur. ob. khim. 34 no. 3: 843-847 Mr '64. (MIRA 17:6)

1. Kazakhskiy gosudarstvennyy universitet.



ARONOVA, Ye.R.; SHARIFKHODZHAYEV, A.T.; TIMOFEYEVA, M.Ye.

Detection of brucellosis among blood donors. Problegenat. i perelkrovi no.11:60-62 161. (MIRA 15:1)

1. Iz Uzbekskogo nauchno-issledovatel'skogo instituta gematologii i perelivaniya krovi (dir. S.A. Agzamkhodzhayev, nauchnyy rukovo-ditel' - doktor med.nauk G.S. Suleymanova).

(BRUCELLOSIS) (BLOOD DONORS)

L 12359-66 EWT(1)/EWA(j)/T/EWA(b)-2

ACC NR: AP5028177

SOURCE CODE: UR/0242/65/000/007/0055/0057

AUTHOR: Sharifkhodzhayev, A. T.

Uzbek Scientific Research Institute of Hematology and Blood Transfusion (Uzbekskiy nauchno-issledovatel'skiy institut gematologii i perelivaniya krovi)

TITLE: Changes in complement titer and Burnet's allergic test during chronic bru-

SOURCE: Meditsinskiy zhurnal Uzbekistana, no. 7, 1965, 55-57

TOPIC TAGS: brucellosis, infective disease, animal disease, drug treatment

ABSTRACT: The complement titer in brucellosis patients was studied in relation to the severity and duration of the disease, method of therapy, and reaction to Burnet's allergy test. The titer was within normal limits (0.03-0.06) in 22 out of 223 patients examined prior to treatment, a little low (0.08-0.09) in 56, fairly low (0.1-0.15) in 105, and very low (0.2-0.25) in 40. In patients given blood transfusions, the titer rose and became normal during treatment and, especially, afterward. In 19 patients treated with antibiotics and vaccine, it was quite low during Card 1/2

Card 2/2

DESYATCHIKOV, B.A., kand. ekon. nauk; GABZAILOV, G.F., kand. ekon. nauk; KADYROV, Z., nauchn. sotr.; ABDUSHUKUROV, T.; KALYAKIN, P.V., kand. ekon. nauk; FOKIH, A.I., kand. ekon. nauk; BAKIYEVA, R.A., nauchn. sotr.; IBRAGIMOV, M., nauchn. sotr.; KARDASI, A.A., kand. ekon.nauk; KADANER, E.A.; NIKONOV, F.D., nauchn. sotr.; ANTONETS, G.M.; ARTYKOV, A.A., kand. ekon. nauk; TRUSOV, A.N.; OVCHAROVA, M.A., nauchn. sotr.; TSOY,P., nauchn. sotr.; KALYAKIN, P.V., kand. ekon. nauk, otv. red.; DZHAMALOV, O.B., doktor ekon. nauk, red.; ARTYKOV, A., kand. ekon. nauk, red.; DESYATCHIKOV, B.A., kand. ekon. nauk, red.; SHARIFKHODZHAYEV, M., kand. ekon. nauk, red.; DESYATNIK, F.M., red.; GOR'KOVAYA, Z.P., tekhn. red.

[Economics of the machinery manufacture of Uzbekistan] Ekonomika mashinostroeniia Uzbekistana. Tashkent, Izd-vo AN Uzb.SSR, 1963. 289 p. (MIRA 16:12)

1. Akademiya nauk Uzbekskoy SSR, Tashkent. Institut ekonomiki. (Uzbekistan-Machinery industry)

the Committee on Stella Prizes (of the Council of Ministers USSR) in the fields of science and inventions announces that the following ecientific works, popular scientist; books, and textbooks have been submitted for competition for Stalin Prizes for the year 1998 and 1998. [Sovetchar Fulture, Muscow, No. 22-40, 20 Feb - 3 Apr 1954;

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80: 4-306.4. 7 July 1954

.alay w, Sharifor, b. .

SHARIFUV, E.F.; KHRZHANOVSKAYA, T.Ye.

Dynamics of some mutrients in meadow-Sierozem soils under forest stands in the Mili Steppe, Izv. AN Azerb. SSR. Ser. biol. i med. nauk no.5:109-114, '61. (MIRA 14:8)

(KURA LOWLAND—FOREST SOILS)

SHARIFOV, E.F.; GYUL'AKHMEDOV, A.N.; KHRZHANOVSKAYA, T.Ye.

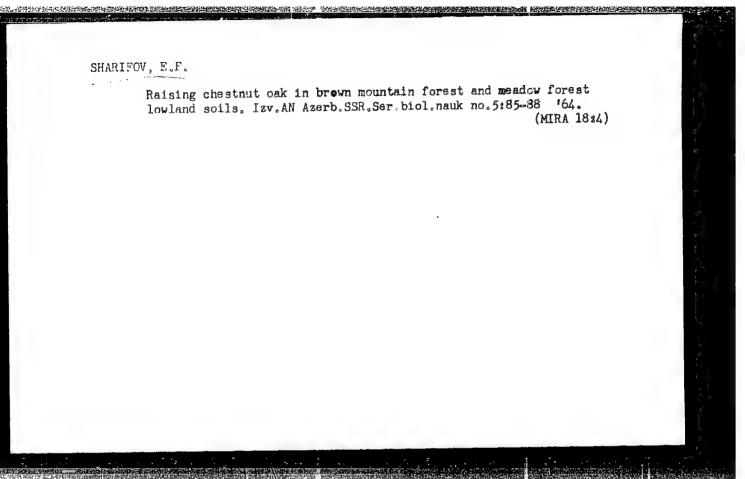
Some characteristics of light-brown soils under pistechio and oak in the Sultanbud Woods. Izv. AN Azerb. SSR. Ser. biol. i med. nzuk no.11:97-107 '61. (MIRA 15:3)

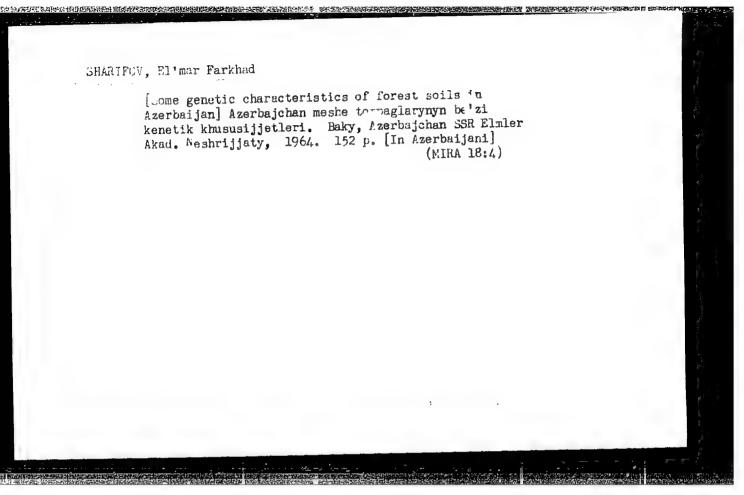
(AZERBAIJAN-FOREST SOILS)

SHARIFOV, E.F.; TAGIYEV, E.F.

Soil conditions and land improvement of industrial premises and problems of landscaping in Sumgait. Izv.AN Azerb.SSR.Ser.biol.i med.nauk no.5:59-67 '62. (MILLA 1):9) (SUMGAIT-LANDSCAPE GARDENING)

SHARIFOV, E.F. Relation of brown mountain-forest soils to the Crimean pine. Izv.AN Azerb.SSR.Ser.biol.i med.nauk no.6:71-75 '62. (MIRA 15:12) (AZERBAIJAN-PINE) (AZERBAIJAN-FOREST SOILS)





I 11149-66 EVT (m)/EVP(j)/T/EVP(t)/EVP(b) JD/VP/VB/RM ACC NR: AP6000335 SOURCE CODE: UR/0286/65/000/021/0035/0035	Francisco
41.	
AUTHORS: Kuliyov, A. M.; Bragin, V. A.; Mamedov, I. A.; Konovalov, V. A.; Sadykhov & K. I.: Sharifov, F. R.: Zeynalov, S. D.: Mamedov, S. A.: Diadimov, G.	l _{p. 0}
Sadykhov, K.J.; Sharifov, F. R.; Zeynalov, S. D.; Mamedov, S. A.; Diadimov, G. L.; Negreyev, V. F.	
ORG: none	
TITLE: A method for protecting metals from corrosion? Class 22, No. 176022	
SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 21, 1965, 35	
TOPIC TAGS: corrosion, corrosion protection, organic acid, carbon dioxide, hydrocarbon, asphalt, corrosion inhibitor	r r
ABSTRACT: This Author Certificate presents a method for protecting metals from corrosion in a medium of low organic acids and carbon dioxide with the help of a corrosion inhibitor. To increase the degree of protection, hydrocarbon-soluble products of neutralizing acid asphalts are used as the inhibitor.	
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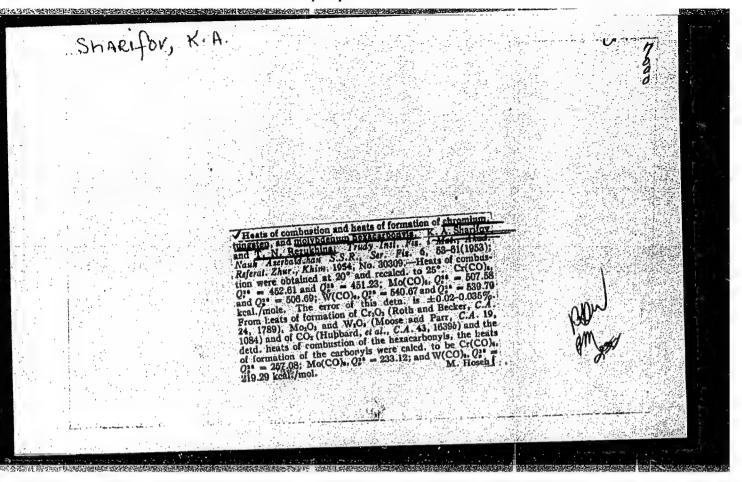
CHALLDON, M.: IMATECUSTORAYA, YE,I.: WEN, T.A.

Adsomation

Effect of the halide ions on the adsorption of organic cations of surface iron. Z.A. Jofa, Ye. T. Lyakhovetskaya, Ye. I.; Sharifov, Low. A. Cook M., No. 3, No. 1952.

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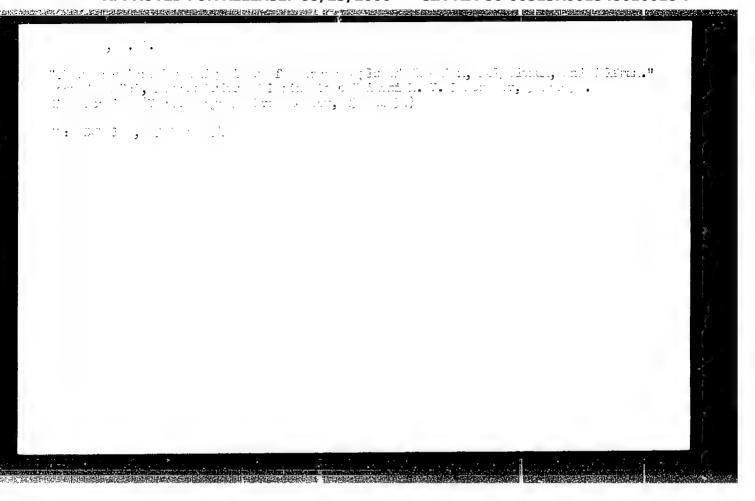


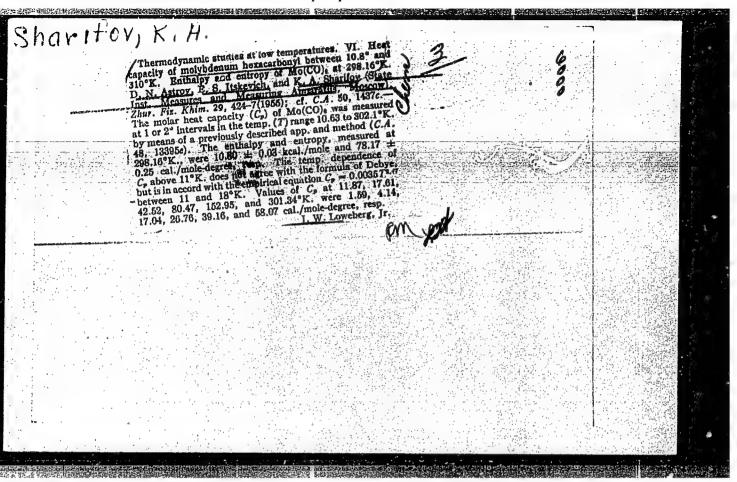
SHARIFOV, K.A.; REZYKHINA, T.N.

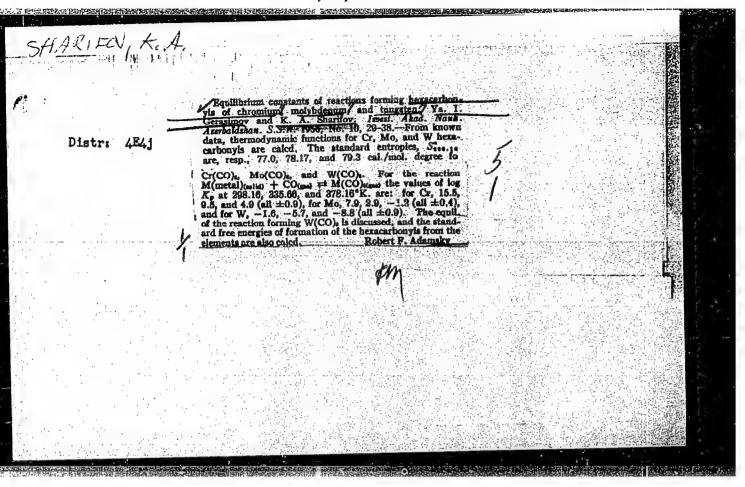
Heats of combustion and heats of formation for chromium, tungsten, and molybdenum hexacarbonyls. Uch. zap. Mosk.un. no.164:115-121 '53.

(Thermochemistry) (Carbonyls)

(MIRA 8:7)







KERIMOV, I.G.; KARASHARLY, K.A.; SHARIFOV, K.A.

Normal combustion rates of nitrogen dioxide mixtures with aromatic hydrocarbons in a bunsen burner flame. Trudy Inst. fiz. i mat.

AN Azerb. SSR. 9:155-160 '58.

(Combustion) (Nitrogen oxides) (Hydrocarbons)

GADZHIYEV, S.H.; SHARIFOV, K.A.

Heat of formation of selenium dioxide. Dokl.AN Azerb.SSR 15 no.8:667-671 '58. (MIRA 13:1)

1. Institut fiziki AN AzerSSR. (Selenium oxides) (Heat of formation)

GADZHIYEV, S.N.; SHARIFOV, K.A.

Determining the heat of formation of tin selenide by synthesis in a calorimetric bomb [im Azerbaijani with summary in Russian]. Dokl.

AN Azerb. SSR 16 no.7:659-662 '60. (MIRA 13:9)

1. Institut fiziki AN AzerSSR.

(Tin selenide) (Heat of formation)

9.431c 24.5500 2h02h \$/076/61/035/005/003/008 B101/B218

AUTHORS:

Gadzhiyev, S. N. and Sharifov, K. A. (Baku)

TITLE:

Use of thermistors in calorimetry

PERIODICAL:

Zhurnal fizicheskoy khimii, v. 35, no. 5, 1961, 1147-1149

TEXT: The authors propose the use of MMT-4 (MMT-4) thermistors in calorimeters with isothermal shells. The MMT-4 thermistors (resistance 3528.28 ohms) were calibrated at 25°C by means of a mercury thermometer (error: $\pm 0.0005^{\circ}$ C). Temperature was varied between 23 and 27°C, and the (error: $\pm 0.0005^{\circ}$ C). Temperature was used with a Wheatstone bridge every resistance of the thermistor was measured with a Wheatstone bridge every 0.5°C. From the experimental data, the authors derived the equation for the resistance R: $\log R = -0.03487 + 1067.981/T$ (1). Since the resistance the resistance R: $\log R = -0.03487 + 1067.981/T$ (1). Since the resistance of the thermistor is also dependent on the voltage, the latter was kept of the thermistor is also dependent on the voltage, the latter was kept of the thermistor is also dependent as an optimum at which the voltamper characteristic is linear. Tests showed that MMT-4 thermistors are ampere characteristic is linear. Tests showed that MMT-4 thermistors are not stable. Within 58 days the resistance changes by 1 ohm, which not stable. Within 58 days the resistance changes by 1 ohm, which is of no significance in the calorimetric determination of ΔT . The

Card 1/3

24024 \$/076/61/035/005/008/008 B101/B218

Use of thermistors in calorimetry

correction for heat exchange was calculated from the equation T = a + bR (2). Differentiation of Eq. (2) leads to $dR/R = -2460dT/T^2$. In the initial and final sections, the temperature takes a linear course: $v = \Delta T/\Delta t$. If t is set equal to 1, one obtains $v = -T^2\Delta R/2460R$; $v_0 = -9^2\Delta R_0/2460R_0$; $v_n = -9^2\Delta R_0/2460R_0$. Here, v_0 , v_n denote the temperature change, and θ_0 , θ_n the average temperature of the system at the beginning and at the end of the experiment. If $-9^2/2460R = C$ and $-9^2/2460R_0 = C_n$, one obtains $v_0 = C_0\Delta R_0$ (3); $v_n = C_n\Delta R_n$ (4). R_0 and R_n are the changes in resistance at the beginning and at the end of the experiment. Then, the correction equations read:

$$\Sigma v_0 = \frac{C_n \Delta R_n - C_0 \Delta R_0}{R_n - R_0} \left[\frac{r_n + r_0}{2} + \sum_{1}^{n-1} r - nR_0 \right] + nC_0 \Delta R_0, \tag{5}$$

$$\sum v_n = \frac{C_n \Delta R_n - C_0 \Delta R_0}{R_n - R_0} \left[\frac{r_n + r_0}{2} + \sum_{n=1}^{n-1} r - nR_n \right] + nC_n \Delta R_n.$$
 (6)

Card 2/3

24024 \$/076/61/035/005/008/008 B101/B218

War of thermisters in unlerimetry

Here, $\sum v_i$, $\sum v_i$ are the corrections for heat exchange, R_o and R_n the mean value of computation at the tegrating and at the end of the experiment, Γ_i , Γ_i the final value, of remarkance during the initial and the main part of articles the property of many parents.

period, and a is the power of mensurements in the main period. If one works a ways with the same temperature interval, C_0 and C_n may be calculated in a traction to the same temperature of the same C_0 and C_n may be calculated.

In advance, which is milities work appreciably. According to the authors, their metric allows temperature changes to be measured with an error of to Cour Co. There are 14 references: 12 Soviet-bloc and 2 non-Soviet-bloc.

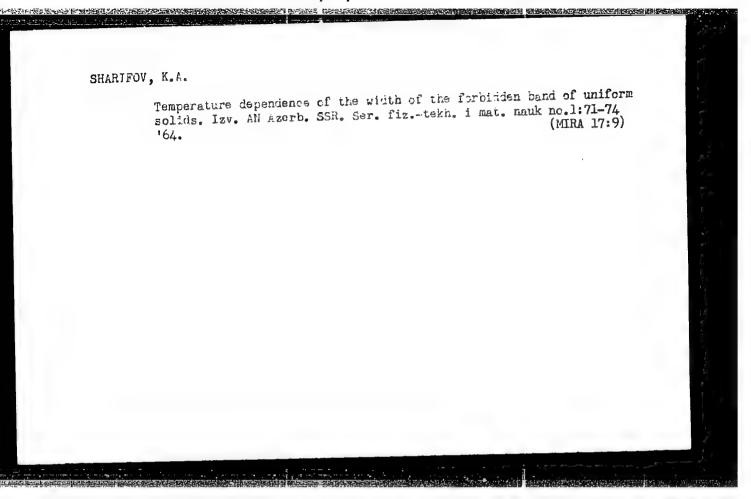
ASSOCIATION: Alairm in anak Azerbaydznanskiy SSR, Institut fiziki

(A odeswire Silveres, Azernaydzhanakaya SSR, Institute of

Fhysics)

SUBMITTED: Optober 1 1960

Card 3/3



<u>L 29944_65</u> EPF(c)/EPR/ENT(1)/ENP(j)/ENT(m)/ENP(b)/ENP(e) Pc-4/P1-4/Pq-4/Pr-4/ ACCESSION NR: AP4044448 Ps-4 RM/WH/ 8/0076/64/038/008/2070/2072

AUTHOR: Sharifov, K. A.; Gadzhiyev, S. N.

TITIE: Amethod for the determination of enthalpy of high temperature processes

SOURCE: Zhurnal fizicheskoy khimii, v. 38, no. 8, 1964, 2070-2072

TOPIC TAGS: indium phosphide, enthalpy, calorimetry

ABSTRACT: A method is developed for measuring heats of formation of compounds, particularly semiconductors by direct synthesis or decomposition of the investigated material in a calorimeter and by direct measurement of the thermal effect of this process. Using this method thermal decomposition of InP with its enthalpy of formation ΔH^0 was determined for the first time. The determination was made in a V-04 calorimeter with an isothermal shell. The calorimeter was a microfurnace with a thin-walled quartz/tube wound with heating coil. A 6-g sample of InP in the tube was heated and the heat due to the current was measured by a calibrated counter. The determined standard enthalpy of formation of indium phosphide $\Delta H^0_{208}(InP_{cub}) = 21.1 + 1.0$ kcal/mole. The authors stated that it was not possible to determine this by any other existing method. Orig. art. has:

Card 1/2

L 29944-65
ACCESSION MR: AP4044448
ASSOCIATION: Fizicheskiy institut Akademii nauk Azerbaydahanskoy 8SR (Physics Institute, Academy of Sciences, Azerbaydahan SSR)

SUBMITTED: 197u163 ERCL: 00 SUB CODE: TD, GC
NO REF SOV: 008 O'BHR: 003

20637

9,4177 24,7600 (1043,1158 ONLY)

S/020/61/136/006/013/024 B103/B203

AUTHORS:

Gadzhiyev, S. N. and Sharifov, K. A.

TITLE:

Determination of the formation heat of indium anticonide by

fusion in a calorimetric bomb

PERIODICAL:

Doklady Akademii nauk SSSR, v. 136, no. 6, 1961, 1339-1341

TEXT: The authors developed new methods of determining the formation heat of binary semiconductor compounds since the usual methods are not always applicable. They heated a stoichiometric mixture of indium and antimony in a sealed quartz ampoule evacuated to 10⁻³ mm Hg at 700°C for 4 min. The ampoule was enveloped by nichrome wire which was fixed by a paste of kaolin, borax, and water, and protected by a tantalum coat. The ampoule was mounted in a calorimetric bomb developed at the termicheskaya laboratoriya Moskovskogo universiteta (Thermal Laboratory of Moscow University) (Fig. 1) and connected to a shaking device. The electric motor driving this device was switched on only during the heating process, and was protected from the heat source by a silver screen. A high-precision current

Card 1/4

20637

S/G2C/61/136/006/013/024 B103/B203

Determination of the formation ...

meter (produced by the "Etoalon" Works) was used in measuring the electric work. The temperature change in the calorimeter was determined with an MMI-4 (MMT-4) thermistor. Calorimeter and current meter were both calibrated. The calorific value of the calorimeter was 2904.4 - 0.6 cal. 5.

One revolution of the current-meter pointer corresponded to 41.40-0.02 cal. The authors stress that the experiments must be carried out on a high level to obtain results of sufficient accuracy. 6.000 cal. were produced during the heating of the empty and filled ampoule. The temperature on the calorithe heating of the empty and filled ampoule. The temperature on the calorithe meter increased by 2.15°C in the case of the empty, and by 2.30°C in the case of the filled ampoule. Hence, the authors conclude that 0.15°C correspond to the heat effect of the reaction. The principal experiment took respond to the heat effect of the reaction. The principal experiment took family. The bomb was filled with nitrogen (30 atm pressure) which reduced the time of experiment and may counteract a possible explosion in the case of substances with high vapor tension. On the basis of their results, the of substances with high vapor tension. On the basis of their results, the authors state that only cubic InSb forms in the ampoule. This was shown authors state that only cubic InSb forms in the ampoule. This was shown authors state that only cubic InSb forms in the ampoule. This was shown authors state that only cubic InSb forms in the ampoule. This was shown authors analysis conducted by K. P. Mamedov and Z. D. Nuriyeva. The chemical analysis (Ref. 5) showed that the components were added at chemical analysis (Ref. 5) showed that the components for InSb is

Card 2/4

s/020/61/136/006/013/024 B103/B203

Determination of the formation...

 ΔH^{0} InSb_{cub} = -3.89 \pm 0.04 kcal/g-atom. By comparison they found that their results agree well with those obtained by other researchers. The Δ H of InSb is not large; therefore, InSb is more similar to alloys than to saline compounds. The authors think that their methods may also be used for multicomponent systems. There are 1 figure, 2 tables, and 6 references: 2 Soviet-bloc and 2 non-Soviet-bloc.

Institut fiziki Akademii nauk AzerbSSR (Institute of Physics ASSOCIATION:

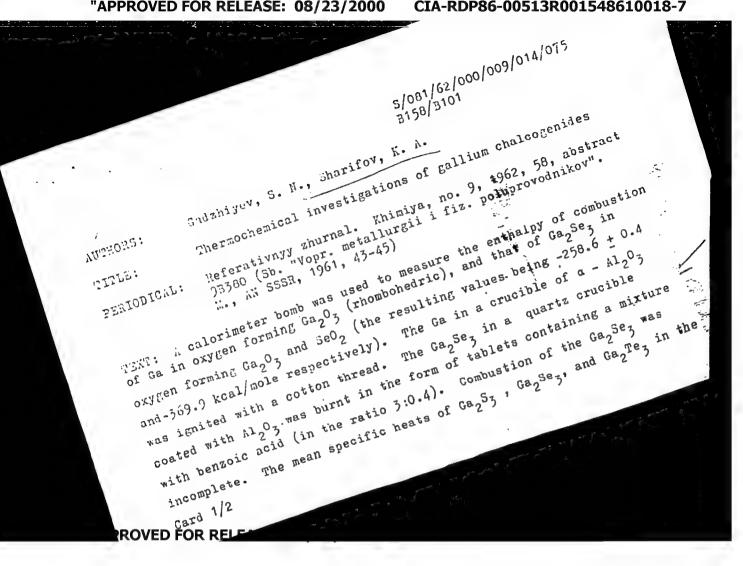
of the Academy of Sciences Azerbaydzhanskaya SSR)

October 6, 1960, by V. N. Kondrat'yev, Academician PRESENTED:

October 5, 1960 SUBMITTED:

Card 3/4

CIA-RDP86-00513R001548610018-7 "APPROVED FOR RELEASE: 08/23/2000

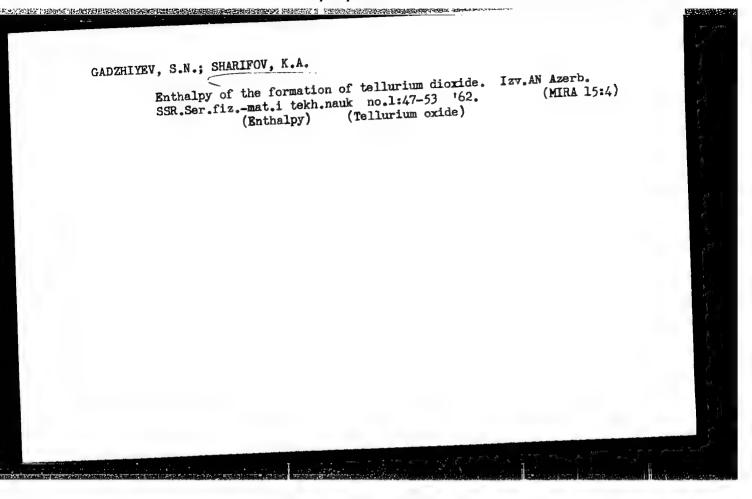


Thermochemical investigations of ...

S/081/62/000/009/014/075 B158/B101

range 25 - 100°C were also measured. The enthalpy of formation of Ga₂Se₃ was calculated as 110 + 5 kcal/mole, this value being regarded as preliminary. A review is given of published data on the enthalpies of formation of Ga₂O₃ and Ga₂Se₃. [Abstracter's note: Complete translation.]

Cara 2/2

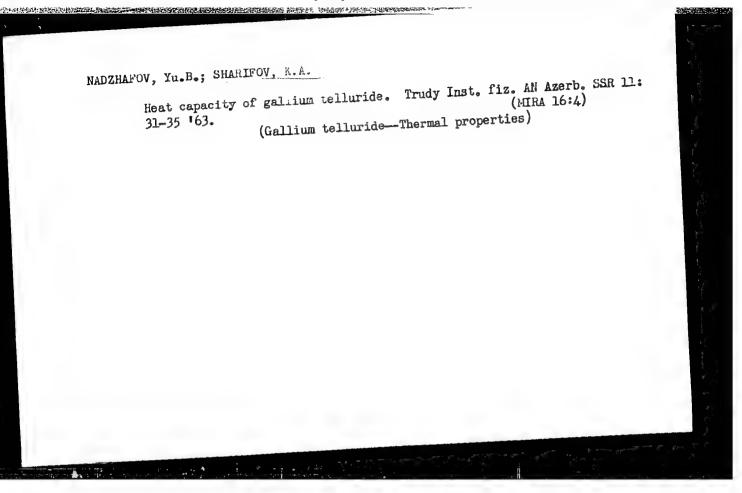


GADZHIYEV, S.N.; AGARUNOV, M.Ya.; SHARIFOV, K.A. (Baku)

Measurement of small temperature differences by means of a thermistor. Zhur. fiz. khim. 36 no.4:897-899 Ap '62.

1. Institut fiziki AN Azerbaydzhanskoy SSR.

(Thermistors) (Temperature—Measurement)



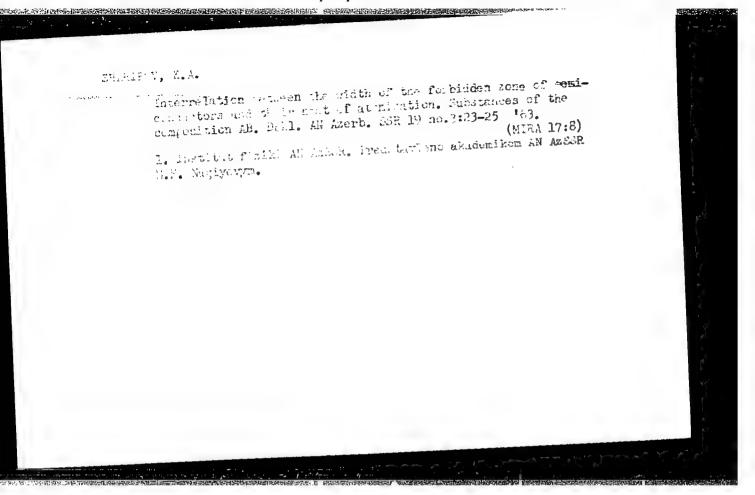
AFFTC/ASD : JD/JW L 17484-63 EWP(q)/EWT(m)/BDS ACCESSION NR: AP3004611 8/0233/63/000/002/005 AUTHORS: Sharifov, K. A.; Gadzhiyev, S. N.; Garibov, I. M. TITLE: The enthalpy of formation of indium arsenide SCURCE: AN AzerbSSR. Izv. Ser. fiziko-matem. i tekhn, nauk, no. 2, 1963, 53-54 TOPIC TAGS: enthalpy, indium arsenide ABSTRACT: The determination of the enthalpy of formation of indium arsenide is accomplished by direct synthesis of the substance from the elements in the calorimetric bomb described by the authors in a previous article (DAN SSSR, 136, no. 6, 1961, 1339). Inds has a melting temperature of 942C. The reaction was carried with 4g of 99.99% pure Indium and a slight excess of arsenic of 99.99% purity. The degree of conversion was tested through distillation of the unreacted arsenic residue in vacuum at 0.1 mm Hg and 600-650C. X-ray analysis shows that InAs is present only in cubic modification. The enthalpy results agree with the data given by Gutbier but disagrees with other results given in the literature. Orig. art. has: 1 table. ASSOCIATION: none SUBMITTED: : 15Aug63 ENCL: . 00 DATE ACQ: 00 SUB CODE: PH, CH NO REF SOV: OTHER: OOL 001 Card 1/7.

GADZHIYEV, S.N.; SHARIFOV, K.A.

Use of thermisters in calorimetry. Zhur. fiz. khim. 35 no.5:
(MIRA 16:7)

11.7-11.9 My '61.

1. Institut fiziki AN Azerbeydshanskoy SSR, Baku.
(Thermisters) (Calorimetry)



5/0249/63/019/005/0011/0015

ACCESSION NR: AP3009757

AUTHOR: Sharifov, K. A.

TITLE: The relationship between width of the forbidden band of semiconductors and their heat of atomization (Presented by Academician M. F. Nagiyev AN Azerbaidzhan

SOUPCE: AN AzerbSSR. Doklady*, v. 19, no. 5, 11-15, 1963

TOPIC TAGS: forbidden band, semiconductor, atomization, diamond, zinc blende, Zn, S, Se, Cd, Te, Hg, In, As, Sb, Ga, P, Al, Si, Sn, C, polarity, chemical bond, metal, isotropic structure

APSTRACT: Starting with an equation from his previous work (DAN Azerb. SSR, 1963, 3, 27), the author derives an expression for the width of the forbidden band as a function of the heat of atomization: $\Delta E_0 = q_0 (\Omega^2 \Omega_0)$, where ΔE is the width of the forbidden band at 0° K, q is a constant, Ω is the energy of atomization under standard conditions (temperature of 208K and projection of 1 at Ω). the forbidden band at 0 K, q is a constant, Ω is the energy of accomplant of the forbidden band at 0 K, q is a constant, Ω is the standard conditions (temperature of 298K and pressure of 1 atm), and Ω is the energy of atomization for the unknown material at 0° K. The author compares computed values with experimental data for a number of substances, and the results are shown

Card 1/3

ACCESSION NR: AP3009757

in Fig. 1 (see enclosure). It is concluded that for the given monotypical substances $\Delta E_0 - \Delta E = k_1 \Delta E$ and $\Delta E_0 \approx k_2 \Delta E$, where k_1 and k_1 are proportionality factors. It is clear that Times characterizing $A^T E^{VII2}$ (in the figure) must always be found to the left of all others, since the bond in them is more heteropolar. If someone succeeds in synthesizing AlBi and InBi, the first will prove to be a semiconductor with $\Delta E_0 > 0.05$ ev. and the second a metal with $\Delta E_0 = 0.55$ ev, since it is to be expected that $\Delta H_{208}^0(AlBi) > 0$ and $\Delta H_{208}^0(InBi) < H_{208}^0(InBi)$ and increases. This conclusion is in agreement with the opinions of many authors. The present author notes that the formula $\Delta E_0 = q_0(\Omega - \Omega_0^0)$ may be applied to both simple and complex substances having any isotropic structure (and not only to substances with the structure of InB or diamond). Orig. art. has: 1 figure, 1 table, and 6 formulas.

ASSOCIATION: Institut fiziki (Institute of Physics)

SUBMITTED: 22May63

DATE ACQ: 30Sep63

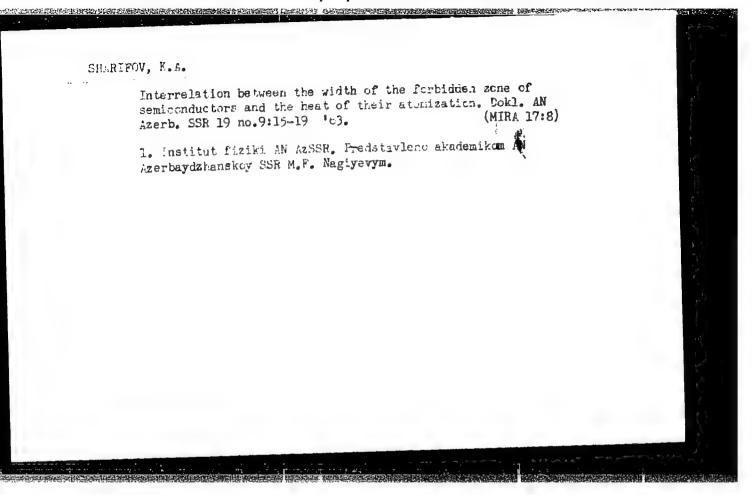
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OTHER: 009

Card 2/3



SHARIFOV, K.A.; GADZHIYEV, S.N.; AGARUNOV, M.Ya.

Use of thermistors in calorimetry. Zhur.fiz.khim. 37 no.10:2368-2370 (MIRA 17:2)

1. Institut fiziki AN Azerbaydzhanskoy SSR.

L 2138-65 ET(=)/EMP(q)/EWP(b) IJP(c)/BSD/ASD(p)-3/AFETR/ASM(p)-2/AEDC(a)/ AFWL/SSD/ESD(t) JD/JW ACCESSION NR: AP4044628 S/0233/64/000/002/0085/0087	American Company of the Company of t
ACCESSION NR: AP4044020 AUTHORS: Sharifov, K. A.; Gadzhiyev, S. N.; Agarunov, M. Ya. AUTHORS: Enthalpy of formation of gallium antimonide	T
SOURCE: AN AzerbSSR. Izvestiya. Seriya fiziko-tekmizene	
TOPIC TAGS: gallium antimonide, enthalpy, thermodynamic calculation,	
calorimeter measured with a calorimetric setup using	
an isothermal stripa fizmatem. i texha. Mattheway using a pro-	
the calorimeter temperature medical. fizich, khimii v. 35, no. 10, cedure developed by the authors (Zh. fizich, khimii v. 35, no. 10, cedure developed by the authors (Zh. fizich, khimii v. 35, no. 10, 2368, 1963). The cedure developed by the authors (Zh. fizich, khimii v. 35, no. 10, 2368, 1963). The cedure developed by the authors (Zh. fizich, khimii v. 35, no. 10, 2368, 1963). The cedure developed by the authors (Zh. fizich, khimii v. 35, no. 10, 2368, 1963). The cedure developed by the authors (Zh. fizich, khimii v. 35, no. 10, 2368, 1963). The cedure developed by the authors (Zh. fizich, khimii v. 35, no. 10, 2368, 1963). The cedure developed by the authors (Zh. fizich, khimii v. 35, no. 10, 2368, 1963).	
Card 1/2	~ mar ()

L 2138-65 ACCESSION NR: AP4044628 involving direct synthesis in a calorimetric bomb likewise developed by the authors (DAN SSSR v. 136, no. 6, 1339, 1961). Those steps in the procedure which are not described elsewhere are briefly mentioned here. The value obtained for the enthalpy of GaSb production at 298K is -10.7 ± 0.6 kcal/mole = -44770 ± 2500 J/mole, which is compared with an experimental value 9.94 ± 0.44 and calculated values 13.3 and 12.2, obtained elsewhere. Orig. art. has: 2 figures and 2 tables. ASSOCIATION: SUBMITTED: 00 ENCL: SUB CODE: TD, MT NR REF SOV: 005 OTHER: 003 Card

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CCESSION NR: AP4041489		
WITHOR: Sharifov, K. A.	tween the width of the prohibite	d zone of a solid and
The relationship be	tween cue	
TITLE: The relationship its thermodynamic propertions	3 1964. 31-35	
w American Dok	lady*, v. 20, no. 3, 1964, 31-35	ted zone, forbidden zone,
SOURCE: AN AZETOSSKO	ladyk, v. 20, no. 3, 1964, 31-33 olid, crystalline solid, prohib energy, lattice energy, prohib emiconductor internal energy, c	ited zone width, semi
TORIC TAGS: homogeneous 5	energy, lattice energy, promise	haracteristic temps.
semiconductor, atomization	olid, crystalline solid, profile energy, lattice energy, prohib emiconductor internal energy, c n o earlier work (Sharifov K. A nauk 1964, No. I) in which the	AN Azerb. SSR"
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in continuation	106h No. 1) In will on	or) on absolute tombe de-
ABSIRACI.	hibited zone of the semiconductors hibited zone of the semiconductors homogeneous isotropic solids, homogeneous isotropic solids in the solids and shows that in the atomization energy. As before the atomization (latterneous to the atomization that the street is the atomization is the atomization to the atomization is at the atomization is at the atomization in the atomization is at the atomic at the atomic atomi	the author extends the lattice energy
AE (the width of the pro	hibited 2000 isotropic solids, homogeneous isotropic solids, line solids and shows that in the atomization energy. As beforthe atomization (lattertional to the atomization between the relationship between	his case the width of the
ture was investigated to	line solids and shows As befo	ere, since the and this is
rived formulas total	line solids and shows that in the line shows that it is shown that the line shows that it is shown that it	AE and temperature is given
must be substance is propo	relationship between	
dependent on the tempera	line solids and the atomization (latterional to the atomization (latterional to the atomization ture, the relationship between $\Delta E_{\text{T}} = \Delta E_{\text{T}} = k(H_{\text{T}} - H_{\text{T}})$,	(1).
Бу	ALT,	
Card 1/3		
	A Williams	

ACCESSION NR: AP4041489

where H is enthalpy and the coefficient k is a constant for a given substance. By differentiation, one obtains the temperature coefficient as

$$\beta = -\frac{\partial \Delta E}{\partial T} = \kappa C_p^{\$} \tag{2}$$

where C_p^S is the heat capacity of the semiconductor in the solid state. Graphs are presented in the article showing good agreement between theoretical and experiment—al data (taken from the literature) for the inverse relationship between Δ E and temperature in Ge, InSb and ZnS. If the coefficient k is unknown, it is still—possible to calculate Δ E at a particular temperature, provided only that the value at two other temperatures is known, from the relationships

$$\frac{\Delta E_0 - \Delta E_{\tau_t}}{\Delta E_0 - \Delta E_{\tau_0}} \frac{u_{\tau_1} - u_0}{u_{\tau_0} - u_0} \qquad \qquad \frac{\beta \tau_t}{\beta \tau_0} = \frac{C_{\tau_t}}{C_{\tau_0}} \qquad (3)$$

where u is the internal energy (values for which are readily available in the literature) and γ is the reduced temperature = Θ/T where Θ is either the Debye or Einstein characteristic temperature. The author points out, however, that these equations are less exact than those involving \hat{k} . Orig. art. has: 3 figures and 19 formulas.

Card 2/3

ACCESSION NR: AP4041489

ASSOCIATION: Institut fiziki Akademii nauk Azerbaydzhanskoy SSR (Institute of Physics, Academy of Sciences, Azerbaijan SSR)

SUBMITTED: 050ct63 ENCL: 00

SUB CODE: TD, SS NO REF SOV: 007 OTHER: 004

ShahlfO7, K.A., GAPZHIYEV, S.M.

Method of determining the onthalpy of high-temperature processes.

Ziur.flw.knim. 38 nc.S:2070-2072 Ag *64. (MIRA 1801)

1. Finitheskiy institut AM Azerbaydzhanskoy SCR.

5/0020/64/157/002/0430/0432

AP4042214 ACCESSION NR:

AUTHOR: Sharifov, K. A.; Abbasov, A. S. TITIE: Relationship between the width of forbidden zone and Gibbs free energy of solid nonmetals.

SOURCE: AN SSSR. Doklady*, v. 157, no. 2, 1964, 430-432

TOPIC TAGS: Gibbs free energy, forbidden zone, semiconductor, atomization free

ABSTRACT: In recent years a great interest has been aroused in relating the width of the forbidden zone of semiconductor Δ E and its energy (thermodynamic) properties. The width of forbidden zone Δ E must depend on the strength of the chemical; bond. The stronger the bond the greater is Δ E. Since there are no direct methods for measuring bond energy in solids use is made of some property of the substance which may characterize it, at least approximately. Thus, one may use Δ ii, but it is a characteristic of the system and not of the phase. The relationship Δ ii.) after thermodynamic treatment enables correlation of Δ E with such parameters as internal energy, heat capacity and Debye

Card 1/4

L 35089-65 EWA(h)/EWT(1)/EWG(m)/T Fz-6/Peb IJP(c) AT

ACCESSION NR: AP5006701 \$/0076/65/039/002/0488/0490

AUTHOR: Sharifov, K. A.

TITLE: The thermodynamic interpretation of the width of the forbidden zone

SOURCE: Zhurnal fizicheskoy khimii, v. 39, no. 2, 1965, 488-490

TOPIC TAGS: forbidden zone width, semiconductor thermodynamics, semiconductor electron transition, forbidden zone

ABSTRACT: At present, the width of the forbidden zone (\(\Delta \) of a nonmetallic solid denotes the energy necessary for the transfer of an electron from the top of the valence zone to the bottom of the conduction zone. From the Viewpoint of thermodynamics, such a specification is not sufficiently sharp since it is not clear which kind of energy is being considered during the definite electron transition from one zone into another. To clarify the conditions leading to a definite transition, the author compared the processes taking place within the semiconductor with other well-known chemical processes and, with the help of thermodynamic potentials, supplied a thermodynamic interpretation of the forbidden zone of nonmetallic solids. Equations are derived which connect the width of this zone and its temperature dependence with the thermodynamic properties of the Card 1/2

L 35089-65 AP5006701			
crystal. Orig. art. has: 19	formulas, 1 figure, and	l 1 table.	
ASSOCIATION: Institut fiziki Academy of sciences, AzerbSSR	, Akademiya nauk AzerbSS)	R (Physics institute,	
SUBMITTED: 08Feb64	ENCL: 00	SUB CODE: SS	
NO REF SOV: 008	OTHER: 007		
Card 2/2			

GADZHIYEV, S.N.; NADZHAFOV, Yu.B.; SHARIFOV, K.A.

Synthesis of semiconductor compounds with volatile components.

Izv. AN Azerb. SSR. Ser.fiz.-mat. i tekh.nauk no.5:51-54 '61.

(MIRA 15:2)

(Semiconductors)

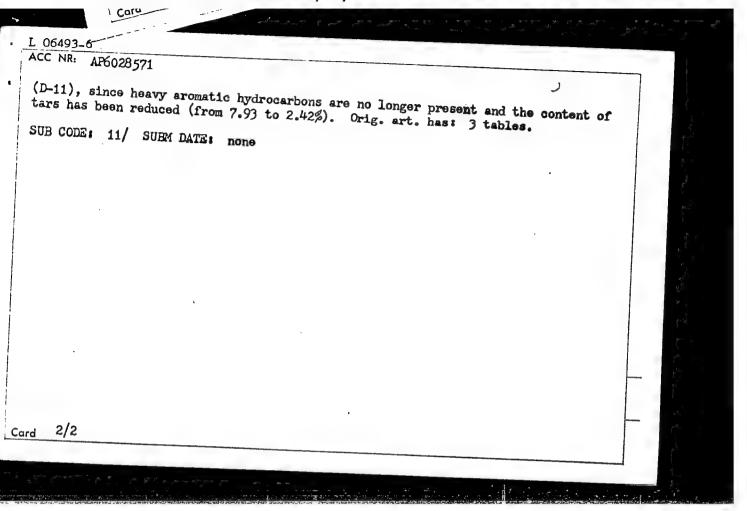
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                                                                                                                                                                      Sharifov, M.YIL., Kofman, R.G., Royzman, B.E.
                                                                                                                                                                            Distribution of vanadium and strontium in the Zaglik
                                                                                                                                                                                   Referativnyy zhurnal. Khimiya, no. 17, 1961, 102, abstract 17765 (Akad. Dokl. AN AzerbSSR, v. 16, no. 11, 1960, 1083 - 1087)
                                          AUTHORS:
                                                                                                                                                                                 alunite bed
                                                                    TEXT: The Zaglik alunite bed is confined to the southeast side of the
                                                TITLE:
                                                                       TEXT: The Zaglik alunite bed is confined to the southeast side of the Dashkesan anticlinorium compounded with Jurassic sedimentary-effusive rocks and directly coherent with alunitized tuffite Vimeriagian denoting the southeast side of the party coherent with alunitized tuffite Vimeriagian denoting the southeast side of the party coherent with alunitized tuffite Vimeriagian denoting the southeast side of the party coherent with alunitized tuffite Vimeriagian denoting the party coherent with alunitized tuffite vimeriagian denoting the southeast side of the southeast side of the southeast side of the party coherent with alunitized tuffite vimeriagian denoting the southeast side of the southeast sid
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                                                                                             sections it was not higher than 0.03%, and reached 0.1% in the alunitiz rocks.

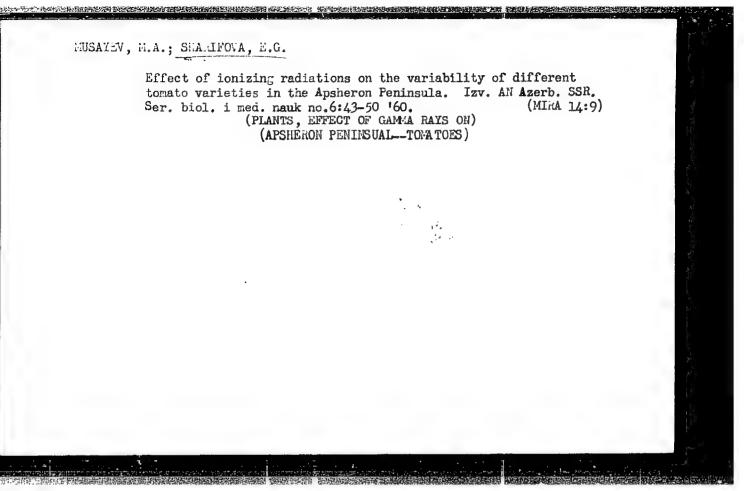
The presence of limestone seams causes a considerable decrease rocks.

The Sr content varied from 0.006 to 0.3%.
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APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R00154861001
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TOPIC TAGS: sulfonation, sulfonation, sulfonation of various commenced were solutions of sulfonates with an and their effective of sulfonates were the solutions of sulfonates are the sulfonation with oleum was tested. AESTRACT: In order to obtain highly effective of sulfonations of sulfonations of sulfonations of sulfonations of sulfonations of sulfonations and anticorrosive properties are the sulfonates barium sulfonates differ in and anticorrosive properties of the sulfonates of sulfonating and anticorrosive properties of the sulfonation of the composition of the compositi





MARKETA 7, Communication of their derivatives. Part 80: Synthesis of alkoxymethyl ethers of 1,3-dichloro-2-propanol. Zhur. ob. knim. 34 no.9:2868-2873 S '64. (MIRA 17:11)

1. Institut neftekhimicheskikh protsessov AN AzerSSR.

MAMEDALIYEV, Yu.G.; MAMEDOV, Mageram; GUSEYNOV, M.M.; SHARIFOVA, M.R.; MEKHTIYEVA, F.A.

Synthesis of vinyl chloride by the chlorination of ethylene in a fluidized catalyst bed. Dokl. AN SSSR. 144 nc.6:1309-1311 Je 162. (MIRA 15:6)

1. Institut neftekhimicheskikh protesessov Akademii nauk Azer-baydzhanskoy SSR.

2. Chelm-korrespondent Akademii nauk SSSR (for Mamedaliyev). (Ethylene) (Chlorination) (Fluidization)

30652

3/081/61/000/020/038/089 B140/B110

5 3300

Mekhtiyev, S. D., Novruzova, A. Sh., Sharifova, S. M.

TITLE:

AUTHORS:

Catalytic alkylation of cyclohexane and methyl cyclohexane

with olefins

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 20, 1961, 157, abstract

20Zh66 (Azerb. khim. zh., no. 5, 1960, 9 - 15)

TEXT: Cyclohexane (I) and methyl cyclohexane (II) are alkylated with propylene and n-butylene in the presence of 12.5% AlCl₃ (referred to cyclane) at 50°C while stirring for 8 - 20 hrs. The unreacted I or II is distilled off in a column (22 theoretical plates), and the residue is fractionated in vacuo. The physicochemical properties of the separated fractions were determined. The nature of hydrocarbons obtained by alkylation of I with n-butylene or of II with propylene was not determined. Alkylation of I with propylene has shown that the yield in alkylate rises from 73.47% to 120.7% (referred to the weight of the cyclane used) as the molar ratio of I to C₃H₆ decreases from 3:1 to 1:1.5. A fraction boiling

Card 1/2

30652 S/081/61/000/020/038/089 B140/B110

Catalytic alkylation of cyclohexane...

at 91 - 94.5°C/13 mm Hg was separated from the main fraction (b.p. 85 - 95°C/10 mm Hg, n_D^{20} 1.4550, d_4^{20} 0.8350) obtained by alkylation of I with propylene. Dehydrogenation of this fraction gave 2,6-dimethyl naphthalene, m. p. 110 - 110.5°C (from CH OH), which indicates the presence of 2,6-dimethyl decalin in the alkylate. [Abstracter's note: Complete translation.]

Card 2/2

MEKHTIYEV, S.D.; SHARIFOVA, S.M.; MAMEDOVA, B.A.

Esterification of terephthalic and isophthalic acids with various alcohols. Azerb. khim.zhur. no.3:55-59 '61. (MIRA 14:11) (Terephthalic acid) (Isophthalic acid) (Esterification)

MEKHTIYEV, S.D.; SHARIFOVA, S.M.; SMIRNOVA, V.P.

Method of separating mixtures of isophthalonitrile and terephthalonitrile. Azerb. khim. zhur. no.1:31-34 165. (MIRA 18:7)

1. Institut neftekhimicheskikh protsessov AN AzerSSR.

ASSERTIVEY, S.D.; SHARIFOVA, S.M.; SMIRNOVA, U.S.

Asterification of terephthalic and isophthalic acids by primary aliphatic alcohols. Azerb. khim. zhur. no.3167-72 (MIRA 19:1)

1. Institut neftekhimicheskikh protsessov AN AzerSSS.

EWT(m)/EWG(m)/EWP(j)/T UR/0316/65/000/005/0006/0009 L 14530-66 SOURCE CODE: ACC NR: AP6005105 AUTHOR: Mekhtiyev, S. D.; Sharifova, S. M.; Smirnova, V. P.; Babayeva, N. L.; Mamedova, Sh. F. INKhP AN AzerSSR ORG: TITLE: Investigation of the quantitative isomer composition of mixtures of tere- and isophthalonitriles $\eta_i \lambda^{i,j}$ SOURCE: Azerbaydzhanskiy khimicheskiy zhurnal, no. 5, 1965, 6-9 TOPIC TAGS: polarography, phthalonitrile, quantitative analysis ABSTRACT: In connection with the increased production of phthalonitriles, a need exists for convenient methods of determination of tere- and isophthalonitriles. work deals with the quantitative polarographic determination of the above isomers. In dropping-mercury-electrode experiments conducted against a 0.05 N LiCl background the basic reduction curves of the two isomers were shown to be of the following type Fig. 1. Polarogram of terephthalonitrile (see Fig. 1): 50 (1) and isophthalonitrile (2) against a background of 0.05 N LiCl, C = 0.26 milli mole/liter Card 1/2

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MAKAROV, A.F.; OBOROTOV, I.Ye.; KALYADIN, I.I.; FELENKO, L.I.; PEREPELITSA, V.R.; NECHAYEV, B.N.; DAVYDOV, A.M.; IVANOV, N.G.; CHUVAKOV, P.F.; FIL'KOV, P.V.; LAR'KIN, G.D.; SVYATKIN, V.V.; SHARIFULLIN, M.

Railroad workers address metallurgists. Put; i put.khoz. 4 no.8:14 Ag '60. (MIRA 13:8)

1. Kovylkinskaya distantsiya puti i putevaya mashinnava stantsiya No.66, stantsiya Kovylkino, Kuybyshevskoy dorogi. 2. Nachal'nik Kovylkinskoy distantsii puti (for Makarov). 3. Sekretari partbyuro, stantsiya Kovylkino, Kuytyshevskoy dorogi (for Oborotov, Nechayev). 4. Predsedatel' mestkoma, stantsiya Kovylkino, Kuybyshevskoy dorogi (for Kalyadin). 5. Sekretari Vsesoyuznogo Leninskogo kommunisticheskogo soyuza molodezhi, stantsiya Kovylkino, Kuybyshevskoy dorogi (for Felenko, Ivanov). 6. Nachal'nik putevoy mashinnoy stantsii No.66, stantsiya Kovylkino, kuybyshevskoy dorogi (for Perepelitsa). 7. Chlen mestkoma, stantsiya Kovylkino, Kuybyshevskoy dorogy (for Davydov). 8. Rukovoditeli brigad i udarniki kommunisticheskogo truda distantsii i putevoy mashinnoy stantsii No.66, stantsiy Kovylkino, Kuybyshevskoy dorogi (for Chuvakov, Fil'kov, Lar'kin, Svyatkin, Sharifullin). (Railroads-Rails)

USSR/Cultivated Plants - Grains.

Abs Jour : Ref Zerr - Biol., No 10, 1956, k4020

Author : Gm.din, S.I., Sharifullin, a.Sa.

Inst : Forester one Scientific Research Testitute for Agriculture

Title : The Two-Grago Heavy string of Grains in the For East.

Original Pub : Eyul. manachan-tekim. imform. Dallaevost. n.-1. im-east.

Abstract : Et abstract.

Carl 1/1

Oil Well Gas Should be Used (Cont.)

SCV/92-58-7-20/37

It is clear, therefore, that cil well flow can be determined with the sid of oil well gas.

ASSOCIATION: Promysel No. 2 NPU Baylyneft' (Ollfield No. 2 of the Baylyneft' Administration)

1. Petroleum--Production 2. Industrial production--Measurement 3. Control systems--Performance

Card 2/2

SOV/20-127-6-11/51

10(4) AUTHOR:

Sharikadze, D. V.

TITLE:

The Application of Similarity to the Motion, and the Point Explosion in the Magnetic Dynamics at Infinite Conductivity

PERIODICAL:

poklady Akademii nauk SSSR, 1959, Vol 127, Nr 6, pp 1183-1186

ABSTRACT:

The present investigation is carried out under the condition that the tension of the magnetic field can be represented as an exponential function of the entropy. For this case, equations (1), (2), (3), and (4) are indicated for the nonstationary flow of a gas. Equation (5) indicates the current density neglecting the displacement current. From equations (1)-(4), the equation system (9) is obtained by eliminating the pressure and the quantity h. The solution of this system is indicated by equations (10), and the integration of the initial equation system (1)-(4) for the application of similarity to the motion is reduced to the quadrature of two common differential equations of first order. The case of a onedimensional flow is then investigated, and subsequently the point explosion in the magnetic gas dynamics is considered. Equations (22) give the conditions in front of the shock wave,

Card 1/2

SOV/20-127-6-11/51

The Application of Similarity to the Motion, and the Point Explosion in the Magnetic Dynamics at Infinite Conductivity of the Gas

and equation (23) indicates the total energy of the shock wave at any point of time. The integral (24) is obtained for the total energy from (22) and (23). From the results thus obtained, the distribution of the parameters in front of the shock wave is investigated, and it is ascertained that it is different from the case of point explosion without a magnetic field. The author thanks Professor K. P. Stanyukovich for his interest in the work, and Academician Ya. B. Zel'dovich for his valuable advice. There are 4 Soviet references.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova

(Moscow State University imeni M. V. Lomonosov)

PRESENTED: May 9, 1959, by Ya. B. Zel'dovich, Academician

SUBMITTED: May 9, 1959

Card 2/2